

**Listing and Amendments to the Claims**

This listing of claims will replace the claims that were published in the PCT Application:

Claims 1-7 are cancelled.

8. (new) Method for determining spherical aberration in a light beam, including the steps of:
- splitting the light beam into at least two partial light beams;
  - focusing the partial light beams onto respective detectors, whereby at least one signal generated by the detectors depends on the positions of the respective partial light beam; and
  - determining the spherical aberration using the signals generated by the detectors;
- wherein a volume hologram having stored wavefront patterns with various degrees of spherical aberration is provided for splitting the light beam into the partial light beams.
9. (new) Method according to claim 9, wherein the partial beams are focused onto the respective detectors in dependence on the amount of spherical aberration in the light beam.

10. (new) Device for determining spherical aberration in a light beam,  
including:

- a volume hologram having stored wavefront patterns with various degrees of spherical aberration for splitting the light beam into at least two partial light beams;
- focusing means for focusing the partial light beams onto respective detectors;

and

- a signal processor for determining the spherical aberration using the signals generated by the detectors.

11. (new) Device according to claim 10, wherein the partial beams are focused onto the respective detectors in dependence on the amount of spherical aberration in the light beam.

12. (new) Apparatus for reading from and/or writing to optical recording media, having means for performing a method according to claim 8 for determining spherical aberration.